

Instructions for ProbAgreeAnalysis Software

- Save the ProbAgreeAnalysis.m file to your directory.
- Import your data into your MATLAB session. The data must be entered as a column with individual datapoints on separate lines. Arrange this data such that the first nr values correspond to the measurements made by the reference measurement system, and the second nr values correspond to the measurements made by the new measurement system. Please order a given system's measurements by subject, where all replicate measurements on a given subject are listed sequentially.
- To call the function from your command window, type the following and press enter. The results will automatically be displayed.

```
ProbAgreeAnalysis(n,r,cad,data);
```

- Here n is the number of subjects used in the study, r is the number of replicate measurements made on each subject, cad is the upper bound of your clinically acceptable difference: $(-cad, cad)$, and $data$ is the vector of data formatted as described in the second bullet.

Instructions for RankPlans Software

- Save the RankPlans.m file to your directory.
- To call the function from your command window, type the following and press enter. The results will automatically be displayed.

```
RankPlans(Nmax,mu,[sigmas,sigma1,sigma2],[alpha,beta],cad,numplan);
```

- The inputs for this function are as follows:
 - N_{max} is the maximum number of measurements that can be made by each system
 - μ is the average value of the measurand
 - $sigmas$ quantifies the between-subject variation
 - σ_1 is the first system's repeatability
 - σ_2 is the second system's repeatability
 - α is the fixed bias
 - β is the proportional bias
 - cad is the upper bound of your clinically acceptable difference: $(-cad, cad)$
 - $numplan$ is the number of plans you wish to display